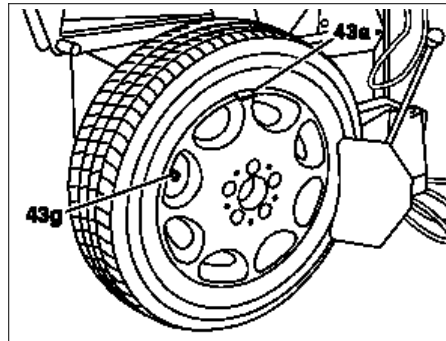


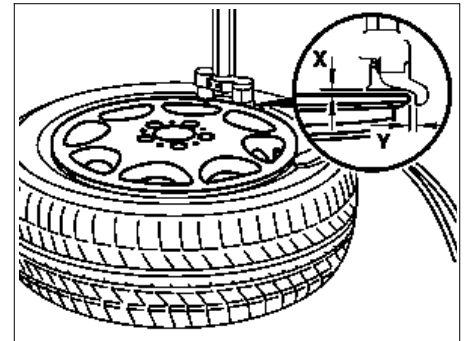
**MODEL** 124, 129, 140, 163, 164, 168, 170, 171, 202, 203, 208, 209, 210, 211, 215, 230  
**MODEL** 220 except CODE (Z07) Top protection with PAX emergency running system wheel  
**MODEL** 240  
 except with CSR emergency running system wheel  
**MODEL** 414

43a Balance weight  
 43g Valve

X Distance  
 Y Distance



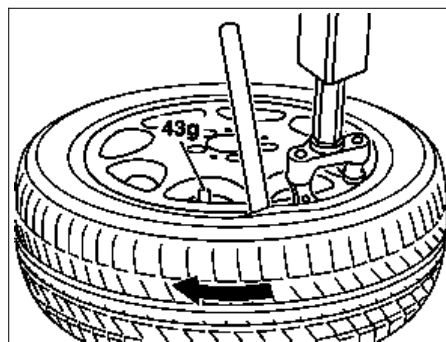
P40.10-0217-01



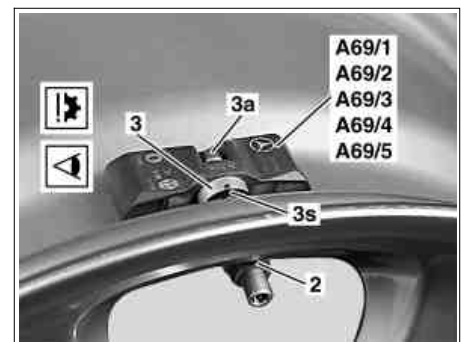
P40.10-0218-01

2 Union nut  
 3 Valve body  
 3a Screw  
 3s Shoulder seal  
 43g Valve

A69/1 Left front TPM [RDK] wheel sensor  
 A69/2 Right front TPM [RDK] wheel sensor  
 A69/3 Left rear TPM [RDK] wheel sensor  
 A69/4 Right rear TPM [RDK] wheel sensor  
 A69/5 TPM [RDK] wheel sensor for spare wheel (only model 203, 209, 210, 215, 220, 240)



P40.10-4405-01

















P40.15-2259-01

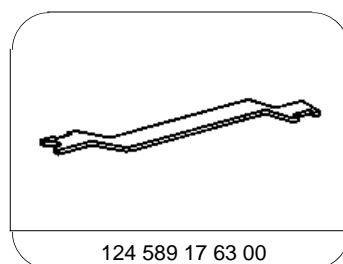
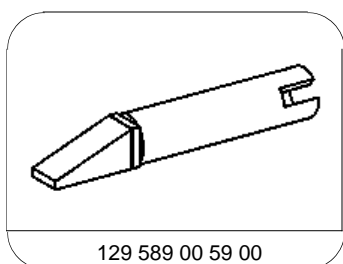
**Modification notes**

1.7.08	"General information - Tires" added "Repair materials" added	Operation step 8, 15, 22	
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	<b>Disassemble</b>		
	Information on tires / rims		AH40.10-P-9411-01A
	Tires - General information		AH40.10-P-1020-01D
1 AP AP AP	Remove wheel. Remove/install wheels, rotate if necessary	Model 163 Model 171 Model 124, 129, 140, 164, 168, 170, 202, 203, 208, 209, 210, 211, 215, 220, 230, 240, 414	AP40.10-P-4050GH AP40.10-P-4050V AP40.10-P-4050Z
2.1	Detach jammed balance weight (43a) with assembly tool		*124589176300
2.2	Remove bonded balance weight (43a) with removal tool	Do not use hard, pointed or sharp-edged tools in order to avoid damaging the surface of the disk wheel.  Loctite 7200	*129589005900 *BR00.45-Z-1038-04A
3	Remove valve element from valve (43g)		
4	Drain TIREFIT tire sealant from tire	After using TIREFIT tire sealant Models 163, 164, 168, 170, 171, 203, 209, 211, 230, 240, 414	AR40.10-P-1080A

5	Position the press-off blade of the tire mounting device on the tire bead flank	<p> Do not position press-off blade on the tire flank otherwise the carcass will be damaged. On vehicles with code (470) Tire pressure monitoring system (standard) or code (475) Tire pressure monitoring system (Beru), do not position the bead breaker shovel on the inside or outside of the tire in the area of the valve (43g), otherwise the TPM wheel sensor (A69/1 to A69/5) will be damaged.</p> <p> Position the blade on the bead flank opposite the valve (43g). Tire mounting device for passenger cars with PAX system, without CSR system <a href="#">qotis://F_40.1_01.0</a></p>	
6	Press the inner and outer tire sidewall over the safety humps in the drop center of the disk wheel		
7	Fasten disk wheel on tire mounting device		
8	Apply mounting paste to disk wheel flange and tire beads	Wide-tire mounting paste	*BR00.45-Z-1066-06A
9	Position disk wheel on the tire mounting device	 Position the disk wheel so that the valve (43g) is 10 cm behind the assembly head, viewed in the direction of rotation (arrow) of the disk wheel.	
10	Align assembly head at a small distance (X, Y) to the disk wheel		
11	Using the assembly lever, pry the tire beads over the assembly lug and detach the tire from the disk wheel	<p> On vehicles with code (470) Tire pressure monitoring system (standard) or code (475) Tire pressure monitoring system (Beru), no forces should act on the TPM wheel sensor (A69/1 to A69/5), otherwise it will be damaged.</p> <p> A spare tire with a collapsible tire is only available as an assembly. The spare tire with collapsible tire can only be replaced complete. In the event of damage, detach collapsible tire and dispose of separately from the disk wheel.</p>	
	<b>Checking</b>		
12	Check condition of disk wheel		AR40.10-P-1010-01A
13.1	Check TPM wheel sensor (A69/1 to A69/5), valve body (3) and hump seal (3s, Beru system only to 08/2004) for damage in the installed condition	<p>On vehicles with code (470) Tire pressure monitoring system (standard) or code (475) Tire pressure monitoring system (Beru)</p> <p> Do not remove TPM [RDK] wheel sensor (A69/1 to A69/5). Do not retighten bolt (3a, Beru system only) and union nut (2) otherwise the TPM wheel sensor (A69/1 to A69/5) will be damaged.</p> <p> Replace all components if the bolt (3a) or union nut (2) of the TPM wheel sensor (A69/1 to A69/5) are visibly loose.</p> <p> Replace TPM wheel sensor (A69/1 to A69/5) in the event of visible damage or use of TIREFIT tire sealant (Beru system only): ↓ Remove/install wheel sensor: Beru system Siemens system Schrader system</p> <p> When doing so, observe the tightening torques for the different gasket versions: ↓ Gasket of valve body modified.</p>	<p>AR40.15-P-0080A AR40.15-P-0080AS AR40.15-P-0080CW</p> <p>BT40.15-P-0080-01A</p>
 BT			
13.2	Install new valve (43g).	Without tire pressure monitor	
	<b>Clean</b>		
14	Clean TPM [RDK] wheel sensor (A69/1 to A69/5)	On vehicles with code (470) Tire pressure monitoring system (standard) or code (475) Tire pressure monitoring system (Beru)	

		<p>ⓘ Wipe off dirt with a clean, lint-free cloth only. Do not use compressed air, solvents or cleaners, as this will damage the TPM [RDK] wheel sensor (A69/1 to A69/5).</p>	
	<b>Assemble</b>		
15	Apply mounting paste to disk wheel flanges and tire beads of new tire	Wide-tire mounting paste	*BR00.45-Z-1066-06A
16	Position disk wheel on the tire mounting device	<p>ⓘ Position the disk wheel so that the valve (43g) is approximately 180° opposite the mounting head.</p> <p>Tire mounting device for passenger cars with PAX system, without CSR system <a href="#">gotis://F_40.1_01,0</a></p>	
17	Put new tire at an angle on the disk wheel and align the mounting head at a small distance (X, Y) to the disk wheel	<p>ⓘ Observe running direction on unidirectional tires. On vehicles with mixed tires observe the correct assignment of the tire to disk wheel.</p>	
18	Use the tire mounting device to pull the tire over the hump on the disk wheel	<p>ⓘ With tire pressure monitoring system, code (470) Tire pressure monitoring system (standard) or code (475) Tire pressure monitoring system (Beru): No forces should act on the TPM wheel sensor (A69/1 to A69/5), otherwise it will be damaged.</p> <p>ⓘ Load the tire beads as little as possible.</p>	
19	Align the match points of the tire and disk wheel relative to one another		
20	Remove disc wheel with tire from tire mounting device		
21	Remove valve element from valve (43g)		
22	Inflate tires	<p>ⓘ Inflation pressure max. 3 bar.</p> <p>ⓘ The tire beads must slide evenly over the safety bead seats of the disk wheel; if this is not the case, apply mounting paste to the tire beads again.</p> <p>Wide-tire mounting paste</p>	*BR00.45-Z-1066-06A
23	Turn valve element into valve (43g)		
24	Adjust tire inflation pressure to correct pressure.	<p>ⓘ See tire pressure label in the vehicle's fuel filler flap.</p>	
25	Balance wheel	All except model 164 Model 164	AR40.10-P-1040A AR40.10-P-1040GZ
26	Mount wheel Remove/install wheels, rotate if necessary	Model 163 Model 171 Model 124, 129, 140, 164, 168, 170, 202, 203, 208, 209, 210, 211, 215, 220, 230, 240, 414	AP40.10-P-4050GH AP40.10-P-4050V AP40.10-P-4050Z
27.1	Activate tire pressure loss warning:	Vehicle with code (477) Tire pressure loss warning: Model 171 Model 209, 211, 230	AR54.30-P-1000-02RAV
27.2	Activate the tire pressure monitoring system	Vehicles with code (475) Tire pressure monitoring system: Model 211 Model 215, 220 Model 230 Model 240 Model 210	AR54.30-P-1000-02RAT AR54.30-P-1000-02RAM AR54.30-P-1000-02RAR AR54.30-P-1000-02RAH GF40.15-P-0001-02A
	Tire pressure monitor (RDK) activation		



Removal tool

Assembly tool

**Repair materials**

Number	Designation	Order number
BR00.45-Z-1038-04A	Loctite 7200	Henkel Loctite Deutschland GmbH Arabellastrasse 17 81925 München Germany Tel. +49 899268-0 Fax + 49 899101978 www.Loctite.de
BR00.45-Z-1066-06A	Wide-tire mounting paste	Tip Top Stahlgruber Otto Gruber GmbH & Co. KG Gruber Str. 63 85586 Poing Germany www.tiptop.de